Fall 2015

BIOS 1071

various teaching assistants and instructors
University of New Orleans

BIODIVERSITY (BIOS 1071) LABORATORY
SYLLABUS FOR FALL 2015

WEEK	LAB EXERCISE	TEXT CHAPTER
Aug. 24	1) Hypothesis Testing Lab (handout)	Textbook chap. 1
Aug. 31	2) Meiosis Lab (handout) **Quiz 1**	Textbook chap. 13
Sep. 7	3) Virtual Fly Lab (handout) **Quiz 2**	Textbook chap. 22, 23
Sep. 14	4) Evolution Lab (handout) **Quiz 3**	Textbook chap. 14, 15
Sep. 21	5) Arthropods (handout) Part 1 **Quiz 4**	Lab manual chap. 29
Sep. 28	6) Arthropods (handout) Part 2 **Quiz 5**	Lab manual chap. 29
Oct. 5	7) Plant Adaptation **Quiz 6**	Lab manual chs 20-21
Oct. 12	**NO LABS - FALL BREAK**	
Oct. 19	8) Fungi and Lichens Lab **Quiz 7**	Lab manual chap. 25
Oct. 26	9) Invertebrate Diversity Lab 1 (handout) Sponges, Cnidarians, and Flatworms **Quiz 8**	Lab manual chs 27-28.1
Nov. 2	10) Invertebrate Diversity 2 Mollusks, Nematodes, and Annelids **Quiz 9**	Lab manual chs 28.3-29.1
Nov. 9	11) Echinoderm & Chordate Lab **Quiz 10** **Arthropod Diversity Lab Report <u>draft</u> due at beginning of class.**	Lab manual chs 30-31
Nov. 16	12) Vertebrate Anatomy Lab **Quiz 11** **Arthropod Diversity Lab Report due at beginning of class.**	Lab manual chs 30-31
Nov. 23	**NO LABS - THANKSGIVING BREAK**	
Nov. 30	13) **OPEN LAB** and **FINAL EXAM**	

Texts: Campbell and Reece. *Biology*. tenth edition, and the lab manual Pendarvis & Crawley. *Exploring Biology in the Laboratory* ISBN 978-0-89582-963-4. Our lab manual is customized for UNO and only available at the UNO bookstore. You will also receive handouts in lab and on the university's Moodle webpage.

BIOLOGY 1071 STUDENT GUIDELINES

BIOS 1071 COURSE CATALOG DESCRIPTION: Prerequisites: credit or concurrent enrollment in BIOS1073. Students are given exposure to representatives of the various groups of organisms discussed in BIOS 1073 as well as other lecture topics in the context of a laboratory setting (e.g., cell division and genetics). The class meets for 3 hours once a week.

STUDENT LEARNING OUTCOMES:

1. Correctly recall and relate all factual material presented in class.
2. Identify adaptations and key diagnostic characteristics specific to particular taxa at the Class, Phylum, and /or Kingdom level.
3. Describe differences in meiosis/mitosis. Explain the role of each in reproduction in various organisms.
4. Describe how taxa at the Phylum and Class levels are related evolutionarily.
5. Solve problems without being given specific instructions after being shown a general pattern; e.g. problems in Mendelian genetics.
6. Practice using the scientific method to test hypotheses to answer scientific questions.
7. Focus on how specific information fits into the larger picture.
8. Recognize how and when a topic previously discussed in class is related to new topics.

COREQUISITES AND PREREQUISITES: All students registered for BIOS 1071 must register fro the lecture, BIOS 1073, and all students registered for either course must be eligible for, be currently enrolled in, or have credit for MATH 1125 and ENGL 1157.

STUDENT CONDUCT: CELL PHONES & TABLETS: Turn these off upon entering the lab. Do not turn them back on until you have left the lab, or you will lose points for class attendance.

PREPARATION: Students are expected to read the relevant chapters in the textbook by Campbell and Reece for general background and the laboratory assignments for specific instructions **before** coming to lab.

STUDENT ATTENDANCE: Attendance is mandatory and will be taken during each lab meeting. **If a student is not present when attendance is taken, he/she will be docked one full letter grade on the graded material from that day in lab.** Leaving lab early distracts everyone and is not permitted without a valid medical excuse. Any student that misses **three** lab meetings during the semester, **regardless of whether the absence is excused or unexcused**, will receive an "F" for the course. Students must attend the lab section in which they are officially enrolled to have their attendance recorded.

For cases of excused absences (requiring a written medical or legal excuse), the instructor may decide to allow make-up of missed material, quizzes or exams. **Students can only make up missed lab material, quizzes and exams if they contact the instructor via email or leave a message for the instructor at the Biology Department office before or during the week of**

their absence. Since labs change each week, be sure to attend a missed lab **later that week** or you will not do well on the next week's quiz.

ACADEMIC INTEGRITY: Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the UNO Judicial Code for further information. The code is available online at http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf

LABORATORY HANDOUTS: Laboratory materials will sometimes be distributed on handouts. These handouts will be posted on the course's Moodle website and should be downloaded and read before coming to laboratory for the week. It is your responsibility to download the lab for each week; **should you come to class without your handout you can obtain a copy from the instructor for $1.00.**

COMMUNICATION WITH YOUR INSTRUCTOR: Your instructor may contact you with information about your section using your UNO email account. Although you may contact your instructor using a non-UNO email account, announcements to the class can only be sent to UNO accounts, so monitor your account regularly for important information about the class. Contact information for instructors will be available on Moodle prior to the start of the semester. Students are expected to access Moodle frequently for announcements regarding exams, helpful internet links, etc. At http://www.moodlerooms.com/resources/tutorials/participate/ you will find topics such as how to login, and a list of frequently asked questions. Through this button you can access a Moodle support page where you will find topics such as how to login, how to find your password, and a list of frequently asked questions.

***PLEASE NOTE*: Do not under any circumstances contact instructors by telephone or e-mail with questions about quiz or exam content. Such inquiries will receive no response.**

COURSE ASSIGNMENTS: There will be four types of course assignments this semester, outlined below:

1) WORKSHEETS: Students will complete guided learning questions in their lab manuals and on the worksheets included with laboratory handouts. These will not be graded, but must be completed by each student because they will serve as study guides for subsequent quizzes and the final exam.

2) QUIZZES: Eleven quizzes will be given during the semester at the beginning of each lab period. Consult the schedule on page 1 for days on which quizzes will be given. Quizzes may cover material from both the current and the previous week, and will be worth 10 points. The grades from these quizzes will be averaged and account for 70% of your final BIOS 1071 grade.

3) LAB REPORT: The arthropod diversity lab (weeks 5-7) requires a lab report. Full instructions for this lab report will be given by your instructor later in the semester. This lab report will be worth the same as **two** quizzes.

4) FINAL EXAM: There will be a comprehensive final exam worth 20% of the final course grade. In addition to fill in the blank questions the final may include practical demonstration

material such as dissected organisms, microscope slides, Petri dishes, and preserved specimens that students may be asked to identify or discuss. December 5th is scheduled as a day on which this material may be reviewed prior to the final exam.

SUMMARY OF FINAL BIOS 1071 GRADE:

Graded material	Percentage of final grade
Quizzes / Lab report	70%
Final exam	20%
Attendance / Participation	10%

DISABILITY ACCESS STATEMENT: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities are encouraged to contact their instructors to discuss their individual needs for accommodations.

HELPFUL HINTS

1) Always arrive to class on time. This means that you are sitting in your seat, prepared, and ready to learn when class begins. If you arrive late, even one minute late, your graded material for the day may be docked one letter grade.

2) Always prepare for class beforehand. You should read the lab and the accompanying text material (in the Campbell and Reece text) before you come to class.

3) Learn your instructor's name and how to contact him/her.

4) It is your responsibility to contact your instructor if you miss class. When you email your instructor and expect a reply, check your email regularly. If you call your instructor, leave a phone number where you can be reached. If your instructor does not return your call, call your instructor back. Your instructor is not responsible for hunting you down.

5) If there is a problem (e.g. a missed lab or a missed exam), contact your instructor first. Contact the lab coordinator only for problems that your instructor cannot handle.

LAB COORDINATOR: Dr. Jack Horne
E-mail: jhhorne@uno.edu
Office: Biology Building Room 2011
Office telephone: 280-6308

Tutoring is offered by your Teaching Assistant during their office hours. Ask them for location and times.